

Series spec sheet

VN8-L

8' LED VAPOUR TIGHT

Specification grade multi-purpose luminaire

The LED VN series of sealed 8' linear luminaires are for use in both indoor and outdoor applications. Ideal for food processing and beverage plants, refrigerated storage, schools, parking garages, etc. Appropriate for those applications that may require: washability/hose down, complete containment of the LEDs, the ability to withstand reduced temperatures and withstand moderate impact. Seals dust out.

FEATURES AND SPECIFICATIONS

• Applications

- Food processing facilities
- Commercial kitchens
- Breweries and bottling facilities
- Industrial facilities
- Livestock containment buildings
- Parking garages
- Under awnings
- Exterior retail areas
- Marinas and offshore
- Pedestrian tunnels
- Pools

• Construction

Housing

- The housing is constructed from a one piece glass reinforced white fiberglass and impact resistant acrylic lens
- A closed cell, high temperature poured in place gasket and polycarbonate latches seal the enclosure from most hostile environments

Lens

The fixture comes standard with an impact resistant acrylic ribbed frosted lens.

• LINK

This unit can be used as an emergency backup unit powered by battery.

Please view the LINK brochure for more details on this technology.

• Specifications

- Wash down design
- LED technology for long term energy savings
- The luminaire enclosure was found to be in compliance with the indicated requirements of Enclosures for Electrical Equipment NEMA 4X

Driver

- 120 V, 120 V-277 V, 347 V
- 0-10 V dimming driver standard (down to 1%)

Ambient temperature

- 40°C to +40°C
- DL: 0°C to +25°C
- LINK: -40°C to +35°C

Mounting

Stainless steel ceiling mounting brackets and mounting bail brackets for suspended mount included. Wall mounting bracket as an option.

• Compliances

- Suitable for damp and wet location
- IP66
- IP67
- 1500 PSI: High pressure hose down test (1.3 gallon per minute for 3 minutes at 1.5-2.0' from the unit) to maintain the integrity of the fixture.
- No water ingress is allowed
- NSF
- Nema 4X
- Meets requirements of ICES-005
- UL1598, UL8750
- CSA Certified to C22.2 #250.0, #250.13
- cCSAus
- CSA Certified to C22.2 #141-15 (When use with DL and EL options)



OVERVIEW

Light source	LED
Watts (W)	61 - 157
Lumen output (lm)	7 593 - 20 093
Efficiency (lm/W)	117 - 143
Color temperature (K)	3 000/3 500/4 000/5 000
CRI	80+
Weight (lbs)	17

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

ORDERING GUIDE

Series	Lamp type	Lumen package (lm)	Volts (V)	Color temp. (K)	Options
VN8	L - LED	S1A - Refer to the technical specification table for more details S2A - S3A - S4A -	A - 120 H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	L6 - 6' white power cord L10 - 10' white power cord L6-BK - 6' black power cord L10-BK - 10' black power cord SS - Stainless steel latches KV - 10 kV Surge protector TP - Vandal resistant screws DL ¹ - Emergency backup 120 V and 120-277 V only DIM1 ² - 5 wire cable for AC and 0-10 V dimming DIM2 ³ - Leading edge dimming 120 V only SCAL - Smooth clear acrylic lens SFAL - Smooth frosted acrylic lens SCPL - Smooth clear polycarbonate lens SFPL - Smooth frosted polycarbonate lens OS ⁴ - Occupancy sensor AC - Aviation cable kit HRCI ⁵ - High CRI 90+ EL ⁶ - LINK RGB-45 ⁷ - Mount bracket (45°)

¹ Fixture functional in AC mode, when power goes off emergency bodine powers LED boards. One bodine per fixture is standard unless otherwise specified.
² When selecting DIM1 option please also select cable option whether L6, L10, L6-BK or L10-BK.
³ DIM2 is for S1A, S2A and S3A lumen packages.
⁴ To see available options, please consult the occupancy sensors section.
⁵ HCRI option may decrease lumen output from 15% to 19% depending on the CCT.
⁶ The LINK Emergency Power conversion module is compatible with the following configuration only: LS1A, LS2A, LS3A. Not compatible with the following options: DL, EH, OS (external).
⁷ Horizontal wall mount or ceiling mount.

TECHNICAL SPECIFICATION TABLE

Lumen package	Watts (W)	Volts (V)	3 000 K		3 500 K		4 000 K		5 000 K		CRI	Life L70 (hrs)	Tested hours LM-80 (hrs)	Power factor	THD (%)
			Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)					
S1A	61	120-277	7 593	124	7 777	127	7 997	130	8 281	135	80+	195 500	10 000	0.97	11
S2A	80		10 445	131	10 698	134	11 001	138	11 391	143	80+	195 500	10 000	0.97	11
S3A	119		14 627	123	14 981	126	15 405	130	15 952	134	80+	195 500	10 000	0.98	9
S4A	157		18 425	117	18 871	120	19 405	124	20 093	128	80+	195 500	10 000	0.98	9

LINK TECHNICAL SPECIFICATION TABLE

Lumen package	LINK Watts (W)	3 000 K	3 500 K	4 000 K	5 000 K
		LINK lumen output (lm)	LINK lumen output (lm)	LINK lumen output (lm)	LINK lumen output (lm)
S1A	11	2 934	2 934	3 051	3 146
S2A		2 924	2 924	3 042	3 135
S3A		2 924	2 924	3 042	3 135

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

OCCUPANCY SENSORS

ON-OFF SENSORS

Detection - On at (Detection Area) % during (Hold Time) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSE-PO-0301	External	120-347	PIR	20-40	100	20	NA		Dry, -10 to +40
OSE-PO-0501	External	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100	Dry, 0 to +40
OSE-PO-0502	External	120-347	PIR	15-40	100	15	3 000		Dry, 0 to +40
OSE-PO-0701	External	120-277	PIR	20	100	15	NA		Wet, -40 to +40
OSE-PO-0801	External	347	PIR	20	100	15	NA		Wet, -40 to +40
OSI-FO-0301	Internal	120-277	High frequency	32 max	100	20	Disable		Dry and wet, -25 to +40
OSI-FO-0601	Internal	120-347	High frequency	25 max	100	30	Disable	68681	Dry and wet, -35 to +40
OSI-FO-0602	Internal	120-347	High frequency	25 max	100	15	Disable	68681	Dry and wet, -35 to +40
OSI-FO-0603	Internal	120-347	High frequency	25 max	100	15	100	68681	Dry and wet, -35 to +40

B

BI-LEVEL SENSORS

Detection - On at (Detection Area) % during (Hold Time) min., then (Stand-by Dim level) %

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSE-PB-0202	External	120-347	PIR	20	100	30	40	Disable	OSI-FSIR-100	Wet, -40 to +40
OSI-FB-0301	Internal	120-277	High Frequency	32 max	100	20	30	Disable		Dry and wet, -25 to +40
OSI-FB-0302	Internal	120-277	High Frequency	32 max	100	20	10	Disable		Dry and wet, -25 to +40
OSI-FB-0303	Internal	120-277	High Frequency	32 max	100	20	50	Disable		Dry and wet, -25 to +40
OSE-FB-0402	External	120-347	High Frequency	50 max	100	20	30	50	OSI-RC-MH10	Wet, -35 to +40
OSI-FB-0603	Internal	120-347	High Frequency	25 max	100	15	40	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0604	Internal	120-347	High Frequency	25 max	100	30	40	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0605	Internal	120-347	High Frequency	25 max	100	15	30	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0606	Internal	120-347	High Frequency	25 max	100	15	10	Disable	68681	Dry and wet, -35 to +40

TRI-LEVEL SENSORS

Detection - On at (Detection Area) % during (Hold Time) min., then (Stand-by Dim level) % during (Stand-by period) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Stand-by period (min)	Daylight min level (lux)	Remote ¹	Location ² (°C)
OSI-FT-0301	Internal	120-277	High Frequency	32 max	100	20	30	10	Disable		Dry and wet, -25 to +40
OSE-FT-0402	External	120-347	High Frequency	50 max	100	30	30	10	50	OSI-RC-MH10	Wet, -35 to +40
OSI-FT-0601	Internal	120-347	High Frequency	25 max	100	30	30	10	Disable	68681	Dry and wet, -35 to +40

¹ To be ordered separately.

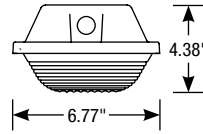
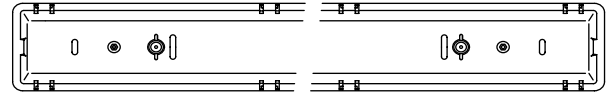
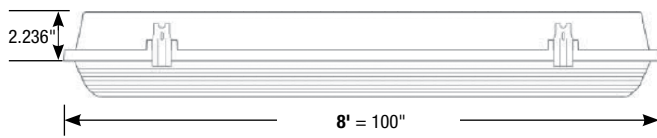
² Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

For more settings visit

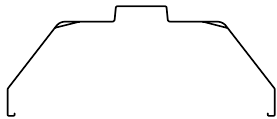
www.standardpro.com/documentation/technical-information/

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

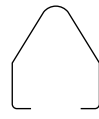
DIMENSIONS



CEILING MOUNTING BRACKETS



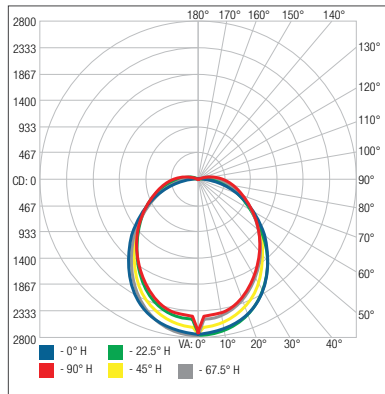
BAIL BRACKETS



PHOTOMETRIC DATA¹

VN8-LS1A-(W/H)/40K • 7 995.2 lm

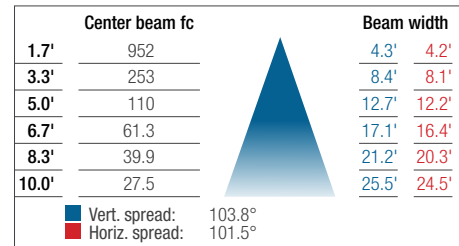
Polar candela distribution



Zonal lumen summary

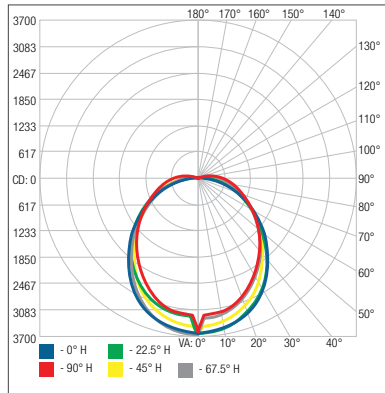
Zone	Lumens	% Fixture
0-30	1 986.7	24.8
0-40	3 207.0	40.1
0-60	5 557.6	69.5
60-90	1 940.8	24.3
70-100	1 278.9	16
90-120	454.3	5.7
0-90	7 498.4	93.8
90-180	496.8	6.2
0-180	7 995.2	100

Illuminance at a distance



VN8-LS2A-(W/H)/40K • 10 998.0 lm

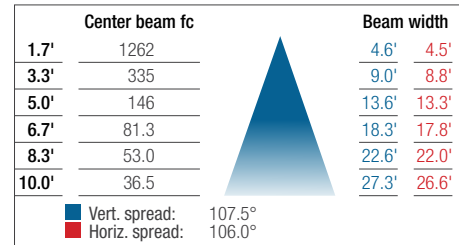
Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 658.4	24.2
0-40	4 343.0	39.5
0-60	7 641.6	69.5
60-90	2 668.1	24.3
70-100	1 758.8	16
90-120	644.1	5.9
0-90	10 309.7	93.7
90-180	688.3	6.3
0-180	10 998.0	100

Illuminance at a distance



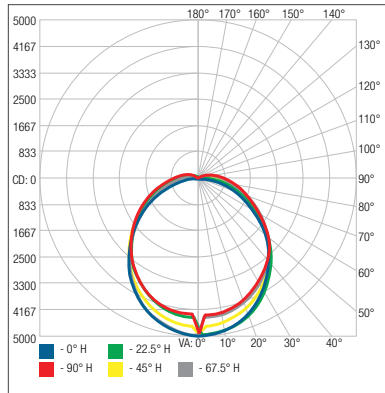
¹ Complete IES files available on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

PHOTOMETRIC DATA (cont'd)¹

VN8-LS3A-(W/H)/40K • 15 402.9 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3 621.0	23.5
0-40	5 927.6	38.5
0-60	10 526.7	68.3
60-90	3 874.5	25.2
70-100	2 583.8	16.8
90-120	929.3	6
0-90	14 401.2	93.5
90-180	1 001.6	6.5
0-180	15 402.9	100

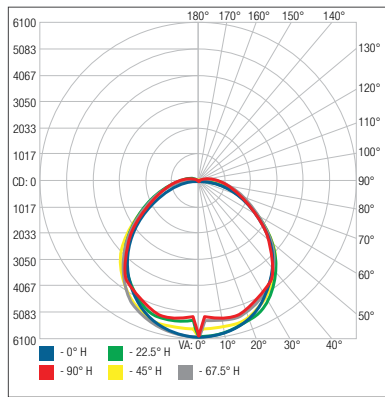
Illuminance at a distance

Center beam fc		Beam width	
1.7'	1 714	4.5'	5.0'
3.3'	455	8.8'	9.8'
5.0'	198	13.4'	14.8'
6.7'	110	17.9'	19.9'
8.3'	71.9	22.2'	24.6'
10.0'	49.5	26.7'	29.7'

■ Vert. spread: 106.4°
■ Horiz. spread: 112.0°

VN8-LS4A-(W/H)/40K • 19 403.0 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	4 669.3	24.1
0-40	7 748.7	39.9
0-60	13 797.4	71.1
60-90	4 554.8	23.5
70-100	2 865.5	14.8
90-120	976.8	5
0-90	18 352.2	94.6
90-180	1 050.8	5.4
0-180	19 403.0	100

Illuminance at a distance

Center beam fc		Beam width	
1.7'	2 107	4.8'	4.8'
3.3'	559	9.4'	9.4'
5.0'	244	14.2'	14.2'
6.7'	136	19.0'	19.0'
8.3'	88.4	23.6'	23.5'
10.0'	60.9	28.4'	28.3'

■ Vert. spread: 109.7°
■ Horiz. spread: 109.6°

¹ Complete IES files available on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.